

[1]

TYPE EXAMINATION CERTIFICATE



[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3]

Type Examination Certificate Number: **DEMKO 20 ATEX 2334X Rev. 6**

[4]

Product: **I/O Modules, AXL F AI8 HART XC 1F, AXL F DI16 NAM XC 1F, AXL P AI8 HART 1F, AXL P DI16 NAM 1F, AXL P DI16/2 1F, AXL P AO4 HART 1F, AXL F AO4 HART XC 1F, AXL P AI8 P HART 1F, AXL F AI8 P HART XC 1F, AXL P RTD8 1F**

[5]

Manufacturer : **PHOENIX CONTACT GmbH & Co. KG**

[6]

Address : **Flachsmarktstraße 8, 32825 Blomberg, Germany**

[7]

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR20.0002/06.**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11]

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12]

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):



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Ex ec IIC T4 Gc

Certification Manager

Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2020-02-19

Re-issued: 2024-08-21

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 20 ATEX 2334X Rev. 6

[15]

Description of Product:

These devices are open type programmable logic controllers, consisting of I/O modules and intended for Industrial Control applications. They are intended to be mounted within a suitable enclosure.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Temperature range

Models	Ambient Temperature Range
AXL F AI8 HART XC 1F, AXL F DI16 NAM XC 1F, AXL F AO4 HART XC 1F, AXL F AI8 P HART XC 1F	-25°C to +60°C
AXL P AI8 HART 1F, AXL P DI16 NAM 1F, AXL P DI16/2 1F, AXL P AO4 HART 1F, AXL P AI8 P HART 1F, AXL P RTD8 1F	-40°C to +70°C

Electrical data

AXL F AI8 HART XC 1F

Supply rating: 24 V dc (19.2-30 VDC), 240mA

Outputs: 22 V dc, 20 mA per channel maximum

AXL P AI8 HART 1F

Supply rating: 24 V dc (19.2-30 VDC), 260mA

Outputs: 22 V dc, 20 mA per channel maximum

AXL F DI16 NAM XC 1F, AXL P DI16 NAM 1F

Supply rating: 24 V dc (19.2-30 VDC), 130mA

Field connections: 8 V dc, 8 mA per channel

AXL P DI16/2 1F

Supply rating: 24 V dc (19.2-30 VDC), 59mA

Field connections: 24 V dc, 2.4 mA per channel

AXL P AO4 HART 1F

Supply rating: 24 V dc (19.2-30 V dc), 160 mA

Outputs: 22 V dc, 20 mA per channel

AXL F AO4 HART XC 1F

Supply rating: 24 V dc (19.2-30 V dc), 150 mA

Outputs: 22 V dc, 20 mA per channel

AXL F AI8 P HART XC 1F

Supply rating: 24 V dc (19.2-30 V dc), 27 mA

Field Connections: 20 mA per channel maximum

AXL P AI8 P HART 1F

Supply rating: 24 V dc (19.2-30 V dc), 27 mA

Field Connections: 20 mA per channel maximum

AXL P RTD8 1F

Supply rating: 24 V dc (19.2-30 V dc), 40 mA

Field Connections: 5 V dc, 1 mA per channel, 2 mA total max

Routine tests:

None Required

[16]

Descriptive Documents:

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17]

Specific condition(s) of use:

- The equipment must be installed in a suitably-certified tool-secured enclosure providing a minimum ingress protection of IP54 in accordance with EN IEC 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1

[18]

Essential Health and Safety Requirements:

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark will be used as the company identifier on the marking label.